

I 1910
Larchmont
Granite

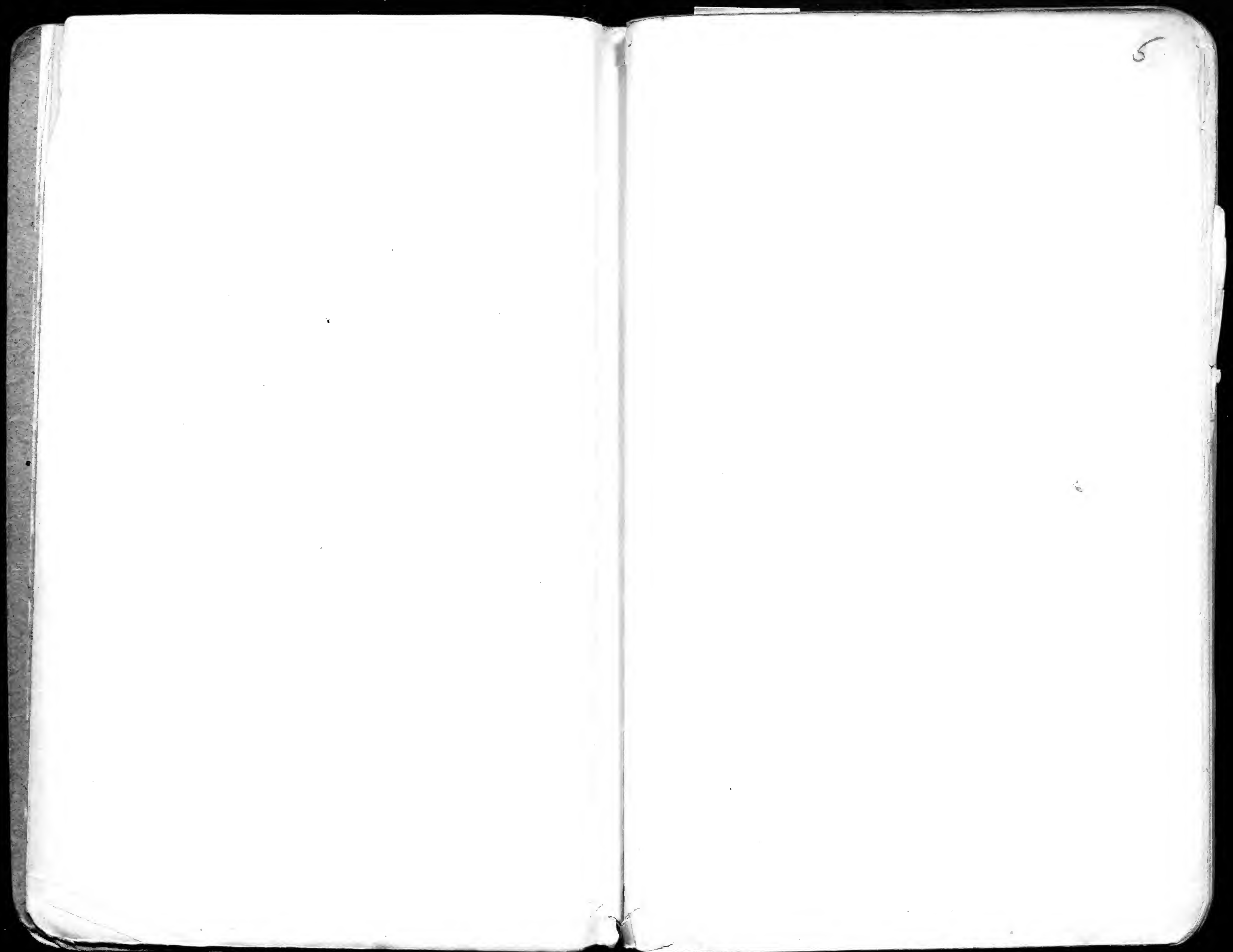
Canton
Klondike
Aso Fajro
Shingla

Photop. plants

J. L. Carman
Bayport
La.



1
J. L. Carman
Bayport
La.



Aug. 15, 1902
Remained at camp -
of the old - 10 miles
from

May 1st - 1st day
of the season - 1st day
from the
2nd day - 2nd day
from the

1320. Valley below camp
✓ 1330. Valley below camp
✓ 1340. Valley below camp
3/4. Valley below camp
✓ 9. Valley below camp
✓ 10. Valley below camp
✓ 11. Canada Thistles - looking to

Afternoon near camp
down river. S. W.
Here no prairie - the soil
to be thin dirt - 1 inch
W shows gravel, 2 ft.

Leads from
x, 100'



at the base of the
valley floor
12-15
valley floor

at the base of the
valley floor
12-15
valley floor
at the base of the
valley floor
12-15
valley floor

at the base of the
valley floor
12-15
valley floor
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valley floor
12-15
valley floor

Cut one (1) is on a side near
the corner of the 18-19 line
It shows 2 or 3 ft of nodular loess
near upper part, & lower corner
Kansas drift is evident.

Thick sand, some with pebbles
2nd of gravel, etc. 10 ft.
above the sand.

RR pit W. of junction
thin bedded gravel & sand
sand (fine) cross-bedded
shows some. Well bedded
west of creek is "alluvial
surround" with big sand dunes
and.

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and.

Sept 18, 1912

Sept 24, 1912, with a view from
the canyon
Photo 33 - looking S.E. across
canyon from S.W. cor. sec. 6, T. 24 N. R. 7 E.
Photo 34 - Looking N. from same
point. Dense yellow sand
limited, ^{Hans} sandstone pit, in the
valley 13-99-48 (continued by)
This is the same sandstone pit.
This is noted to be the best
pit, nearest other pit at
Klondike
This ^(small) pit is exposed 20 ft.
The upper 1-2 ft. is dark soil
mixed with a few pebbles, etc.
The line between this gravel
bed is not sharp or oblique.
Then comes a mass of fine
sand to left, interbedded with
coarser sand, etc. Then
cross-bedded gravel & coarse sand.
There are numerous white
nodules and there is much
iron and numerous bands of

Mem Q. A 4' or 5' mass of
in pit says there are good
clay beds below, leaves in
the gravel.

The large boulders are 6-8 ft.
spherical, in fact, & there
are rotten granite fragments
(not numerous).

There are also numerous
"nodules" of what I fear to
be Kansan (but see sample.)

A pit sunk 40 ft. S. of edge
of pit shows 2 ft. of boulders
& clay mixed, the latter fairly
gray but soft, with pebbles
here and there. Also ridges in
irregular streaks. This sand
appears here. Below, no
sharp oxidized line separates
the two.

The boulders, ~~are~~ scattered
all over this beach & are
old, dark, weathered, a few
spongy Q., but mostly dark

... with ... etc.
It is a ...
so the gravel is ...

✓ 5	-	Hans. pit	
✓ 6	-	"	more distant
✓ 7	-	"	near
✓ 8	-	"	"

• Mon. Aug. 1 - 1910 - Lookout, Tenn.

Aug 7 - " 13 Aug 21.

11 3. Pair. 22.

11. 10. 1952

[illegible]

Sum 1. (7) —————

45

19 - Female Bird

40 - 1967-68

11/11 - Sample 7 (6) collected

412. - *Abies* *Abies* *Abies*, *H. em.*, *Walsh*
He.

Say 7/13

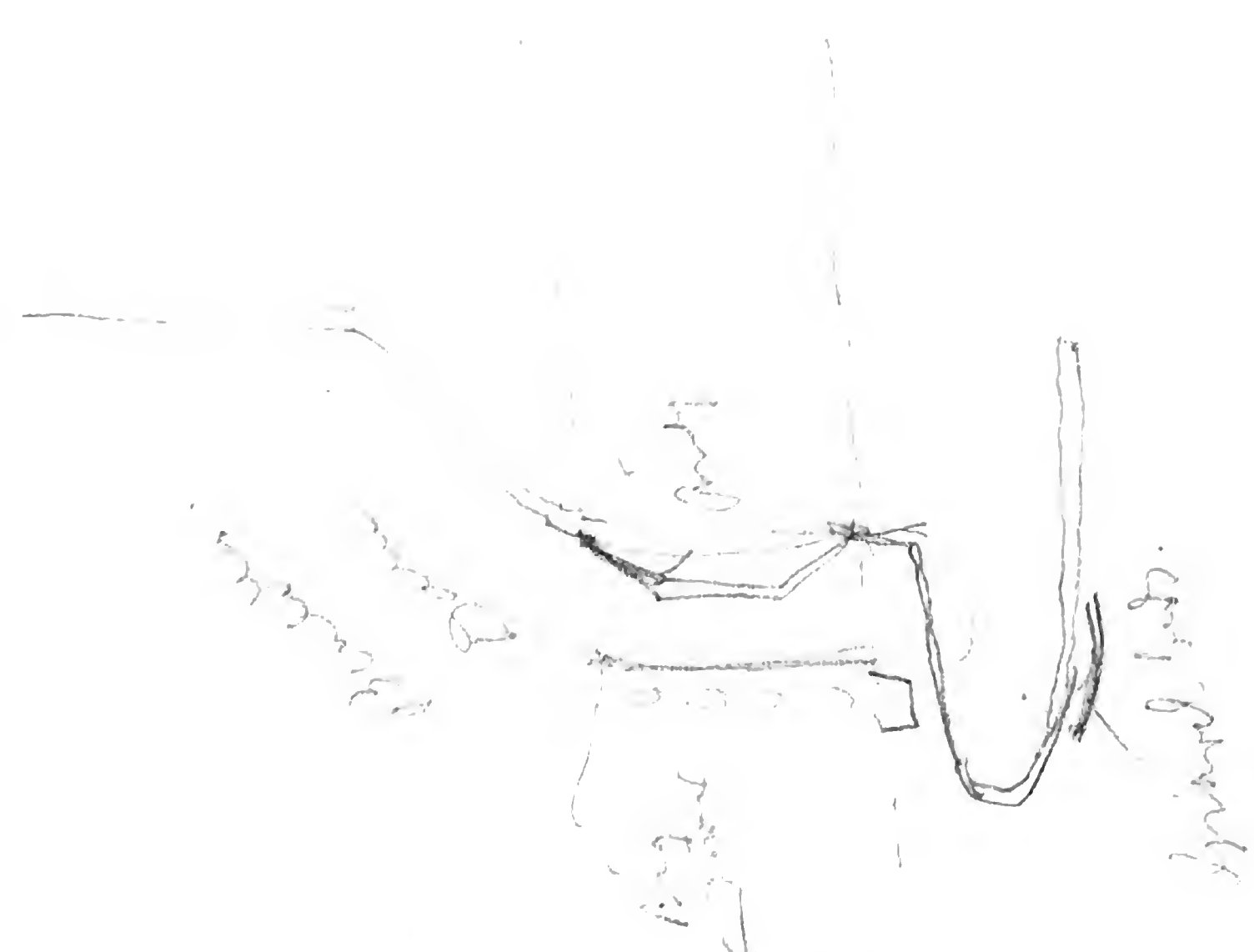
From 11/4 1950, 1950-1951

11/15 Rainy - C. A. A.

Area 1588

23

7-1-61



The gravel beds are coarse, and

and the other, much smaller

London, 1841

Don't let your mind go to sleep, quite a nap

Very truly Yours, Wm. L. G.

About 12 ft. across. Pockets 1

layers of sand. Just a small 4' thick

top of bridge is at (30 ft)

2. u_1, u_2, u_3 linearly independent

in line

Mon. Aug. 1 - 1910 - Lookout train

Aug. 2 - " } May 21,
 { Prairie "

" 3 - Prairie SE.

" 4 - Woods SE.

" 5 - " " (Laurie)

" 6 - Hot Springs

Sun " 7 - ———— change driving
write

" 8 -

" 9 - Terrace Park.

" 10 - worked in.

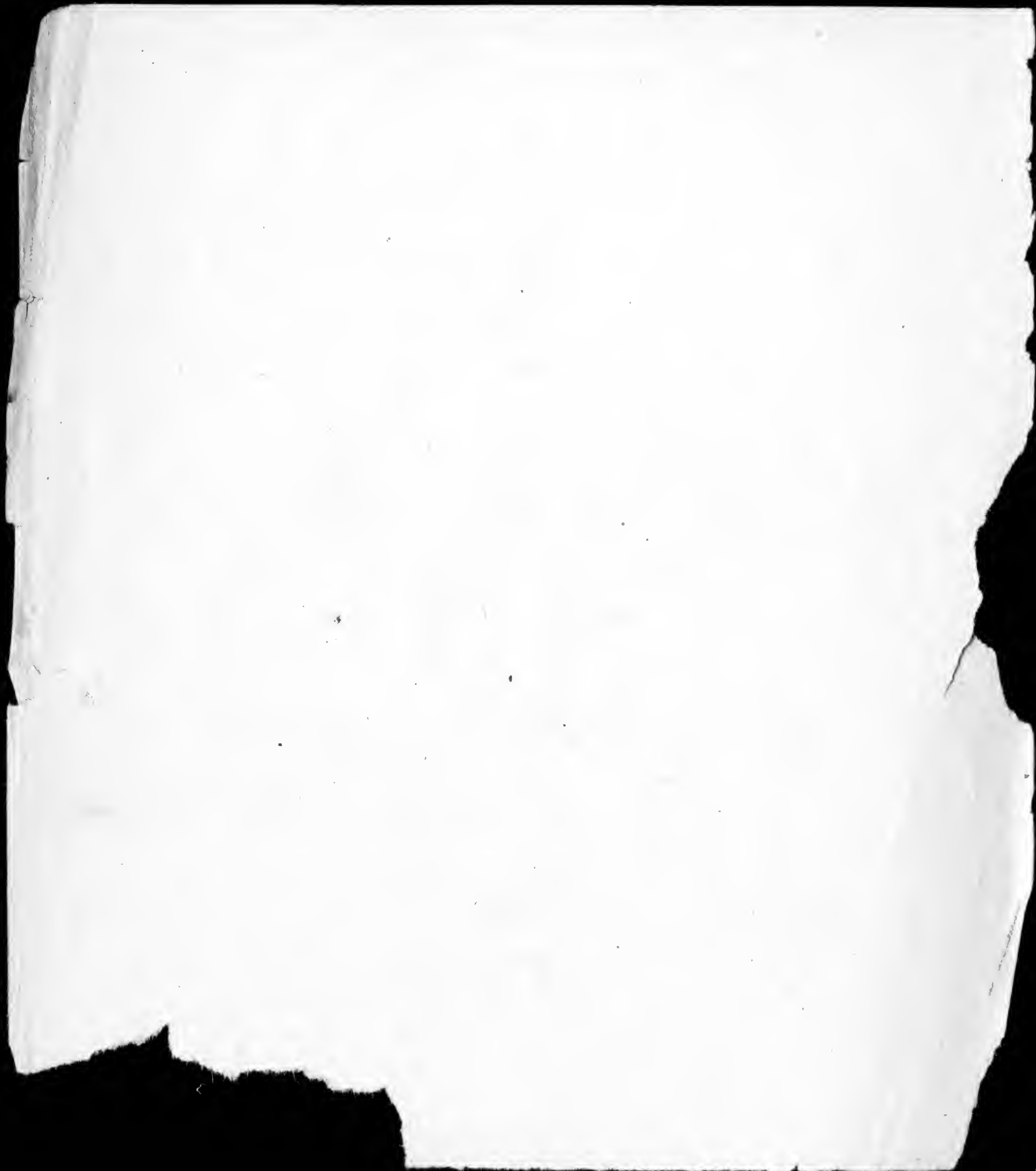
" 11 - Lunch to W. Skelton

" 12 - Am. Club - Plu. N. end, walk

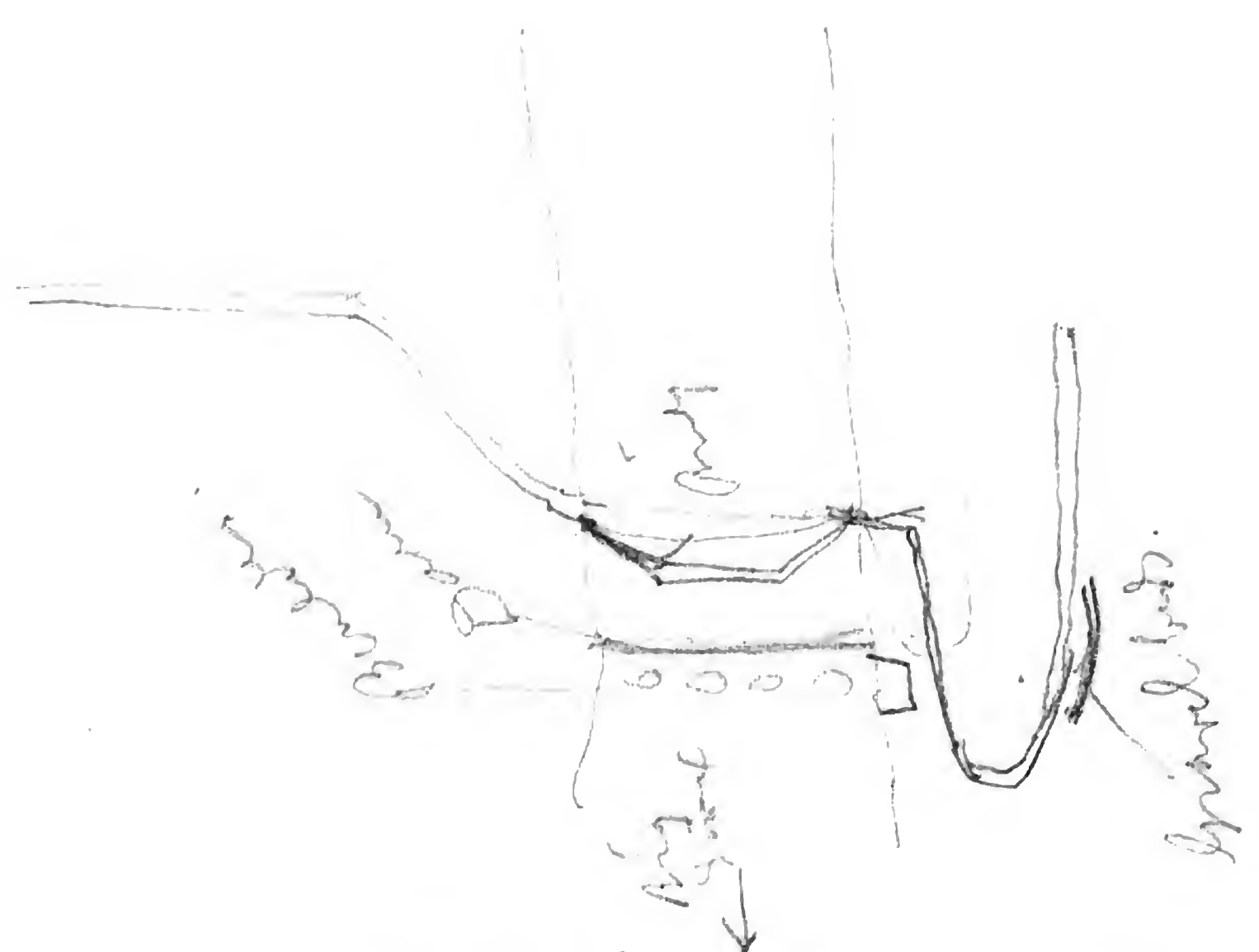
Sat " 13

Sun " 14 write, change driving, etc.

" 15 Rainy - left,



Aug. 12, 1910
 Left San Francisco at 7 AM for China
 at Klondike
 at Klondike, (US 21) - 2nd and 3rd
 there is a large gravel pit
 near the river



The gravel beds are coarse, some
 good boulders, much oxidized &
 looking old. Cross-bedded.
 The other gravel occurs in quite a lot
 certainly looks different
 About 12 ft. exposed. Pockets of
 layers of sand... just a level with
 top of bridge arch (30 ft?)
 The upper 23 ft. mainly boulders 3-6
 in diameter

The material is also, on the surface, very
 water, & with numerous, small
 pebbles.

Drove up to ^{NE 1/4} 17 (Section 17)
 here on S. side of road, on corner of
 bank exposed. Shale.

2-3 ft. mixed. Section 17
 OO O O O
 4-5 ft.

about 40
 ft. long. Section 17
 4-5 ft.

The Section 17 is very fine and
 in bed of creek, & darker below. Blue-
 black. It has into "lenticles"
 & conch is sharp & planar. Section 17

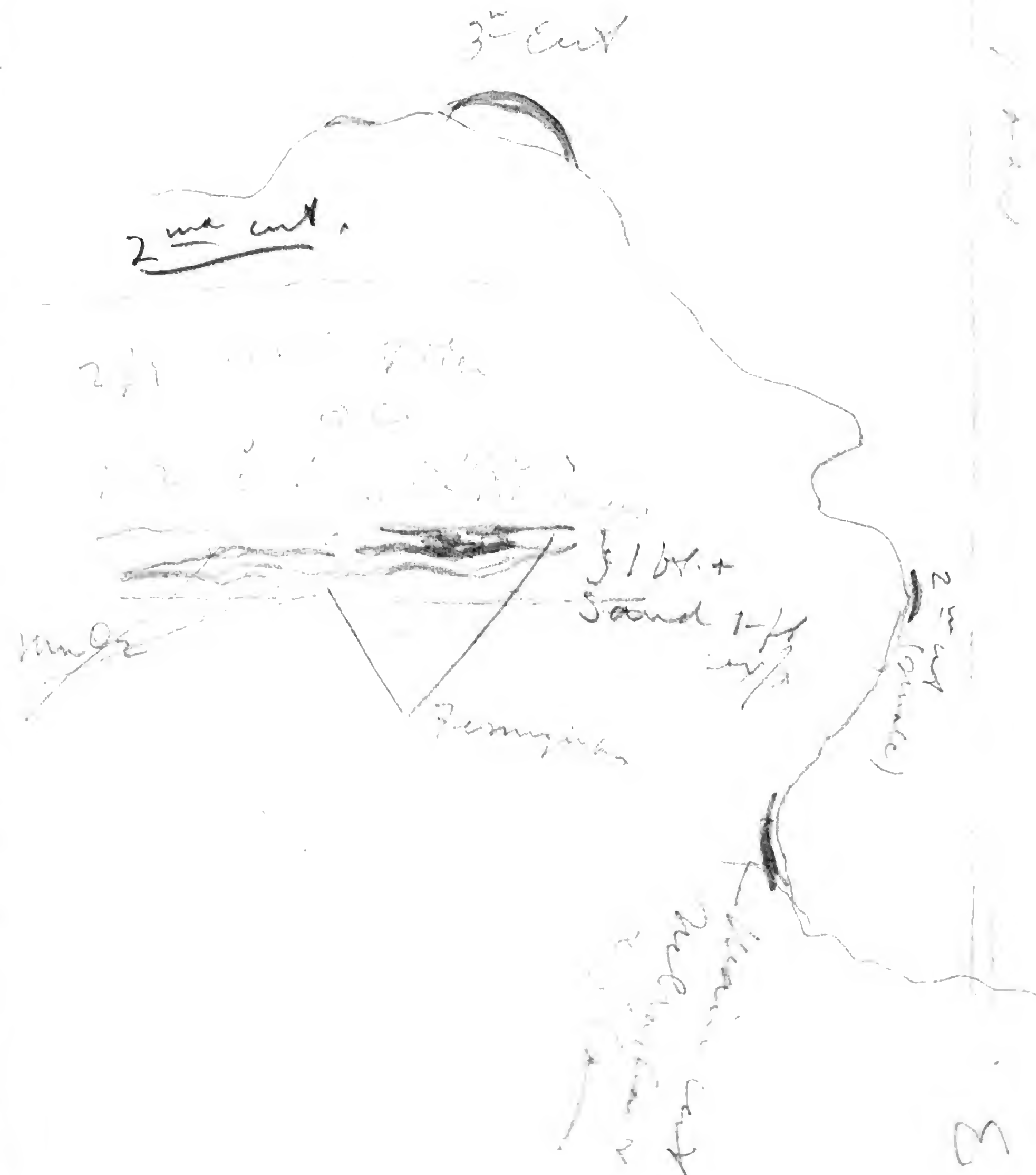
The Section 17 is strongly Section 17
 lower part, marking Section 17 in
 small piece which I saw.

There is more a less Section 17.

Took photos (1, 2, 29, 30, 3, 4, 13, 14)
 spoiled.

The 2nd cut shows 3 ft. of Section 17.

Below Section 17 is a layer of
 red, is a layer of Section 17
 thin. (see sample)
 Pl. 7 to 8



The 3rd cut shows a lot of
 4-6 ft. of ...
 yellowish ...
 (Photo 19-20 & 21 ...
 and 3-)

~~... ..~~

Below this ...
 of ...
 & ...
 here ✓ ✓
 Photos 24 & 8.

Boulders

○ ○ ○ 3 ft. ...
 30 Have just ...
 fallen.

Photos 33 & 34 only 30
 at whole cut

Boulders fall below ...
 ...

... ..

Pickings numerous all kinds
 shells in ...
 numerous buffaloes ...
 ...

The great ...
 ...
 ...
 ...
 ...
 ...

The ...
 beautiful ...
 ...
 ...

Cut a - N. side Mt. 2-78-48

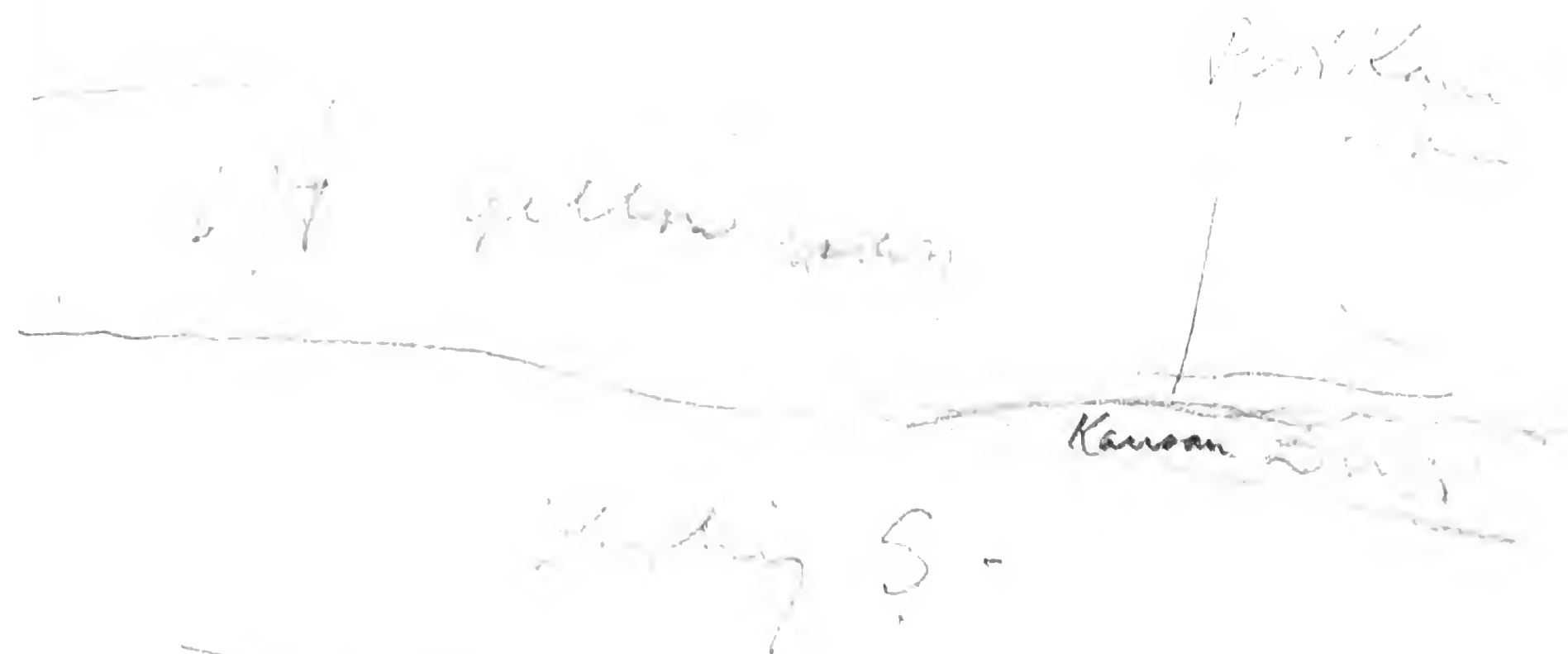
Here at end of a small ridge.
(on N. side) Kanran dirt mound
at foot. Then a little farther
past Kanran town, & then 5-6 ft
of yellow loess above.
Shaded as on N. side of Kanran

On E. side of Kanran
at end of ridge.

On E. side of Kanran
at end of ridge. (on N. side)
at foot of Kanran. Then a little farther
past Kanran town, & then 5-6 ft
of yellow loess above.
Shaded as on N. side of Kanran

On N. side 14-78-48 a cut
shows Kanran, post Kanran loess
& yellow loess. Nearly all
the hills (slopes) on the

East side of Kanran
at this point is
west) the Kanran loess
to Kanran town.
Then a little farther
past Kanran town, & then 5-6 ft
of yellow loess above.
Shaded as on N. side of Kanran



The Kanran loess is
12 ft. or more in a valley.
This is the Kanran loess
west of Kanran (is. of Kanran)

Near S-E corner 10(?)

Kamran 10 ft. away up
of blue yellow loam (mudstone)
above 7 6 or 7 ft. Saw
no blue loam
Reddish sand - (Kamran sand?)

Loam.

On west slope west of X
Kamran, with 1-2 ft
blue loam (mudstone) &
over it yellow loam.
This on slope facing E.

West valley about 1/2 mile west
shows same as west side
W. & again looking E.
On E. side the blue loam
is at least 2 ft thick &
sharply shaly (or wavy) from
west.

This is only a few rods
E of a road running N.
Just W. of this road a slope
down to E. shows mudstone
speckled with thin yellow
loam (see blue loam &
below near end of page)
Kamran sand



In 1/6 - at end, Kamran blue loam
loam again. (see 'at' above)
yellow loam at end above.

Aug, 20, 1910 (Saturday) 33

Left station at 4:30 for

Rocky Valley.

Went from Rocky Valley to town
much of the way on a good road
the rest on a trail.

At the town

we were met by Mr. Kahl.

He

to the bar - well -

Next Mr. Kahl took us to

mine in the town (which is

partly a strip) and also

told us the rest of the mine
it was taken.

This is a very good mine

and the rest of the mine

is very good.

The tracks (the weather, rain, (

yards apart) we found at a

depth of about 35 ft. The

depth was partly covered by the

mean shovel. Of the other 1/2 ft

was seen by Mr. Kahl. He says
it was 10 or 12 ft long.

The bed is made up of cross-bedded

sand & gravel. There are some

iron streaks and occasional lines

and bands of MnO₂.

A few very large
been found, & some in
the lower part of the gravel.

The gravel is mostly composed of
some dark, some light, & some
bits of granite (broken) & some

A second pit (smaller) was
dug at the depot. It reached the same
level as the first but a few fragments
of *Helicostoma* were
found.

The section with some of the
aspect.

Interviewed Mr. McGarry.

He said on second bench there was
usually 35-40 ft. of gravel,
less in places, & in one place he
went down 65 ft. in silt & much
cotton-wood hay.

Says on hills there is loess (from
Kansan) & loess on top of gravel.

Says he sometimes finds a dark
blue clay (tough) below gravel.

Sometimes a tough yellow clay
in same position.

35
From a hill in the river, on bench,
he said some (see page) at a
depth of 10 ft. the same was
found. It was a small, dark, blue
clay, & some of it was found
in the gravel.

Returned to Rock Valley.

Then to a smaller pit near
the corner of town.

This is a small pit, & it
revealed some (fine) sand & gravel
(fine). It is located on second bench.

Found a few fragments of
Helicostoma in section.

There are a few thin
bands of MnO₂.

Marked back of the
at 4 (P.M.) for location.

Top of the hill
2-26

Aug. 21, 1902 (Sunday).

Spent forenoon in the city,
Went to work in the afternoon
and evening.

Aug. 22, 1902, Monday.

Took a walk up the river
on the west side.

In sec. 19, T. 10 N., R. 10 W., there is
a partial exposure of all strata,
here quite extensive and showing
35-40 ft. above the first
It shows a part of a strongly
oxidized bed of gravel, evidently
Aftonian.

In the east part of same section (?)
is located a great slide.

Barometric elevations can be
followed:

Big Sioux river 0

Top of first bottom 15 ft.

Top of Nebraska 65 ft.

(very distinct in upper 30 ft., lower

35 ft. partly covered - slump.)

Top of Aftonian sand = 78 ft.

Top of Kansan = 105 "

Top of Kansan, same as above? 32
at this point = 110 ft.

This great slide is the
top of the Aftonian sand and the
Kansan sand. It is a very large
slide and has been a long time
up to 100 ft. in height, evidently
incubation, but as it is a slide
the whole it may have moved
down. The slide is a very large
one and is a good deal of sand, not
slump, really.

Then for 30 ft. more, to 65 ft.,
there is a layer of sand, which
is Nebraska (as sample).

Upper 5-6 ft. of this is
strongly oxidized sand. This
is Aftonian fine bluish
sand above, separated from
the Nebraska by a sandy
plate (see spec.) about 2 in. thick.
Then there are 13 ft. of the Aftonian
sand.

The sand is separated from

The Kansan is a bluish-grey
fine, brownish 27 ft.
horizontal bed of sand, with
with few small pebbles. Some
smaller large pebbles.
above is a calcareous line
and above that about 5 ft. more
of clay stuff that was
then covered from a
there are scaly places out
of lower part of sand, at the
junction of the Kansan
caused by the grinding of
the same bed.

In the gully leading to spring
and at spring in the W. of No.
20, the water runs on the
cut Mcbrathian (3 great boulders
evidently), & evidently comes
from a glacial sand. The
tops of the hills, & the upper
slopes, show plenty of Kansan
at surface.
Other springs appear elsewhere,

29
a little ways there is
a small pond. There
are also some
small ponds. The
ground is very wet in
places.
At the end of the
road, 20, the water runs
on the

of boundary about 50 ft
of Kansan about 10 ft.
Top of sand covered, scaly,
ridge 195 ft.
Nodules, yellow brown
appearing here (thin) in
the sand, 1 ft. up.

Top of next high ridge (narrow)
west, covered with nodules,
layer at surface) is 205 ft.
Also collected some plants
and shells.

In evening when returning we
were accosted by a group of
5 hoboes at the R.R. bridge.
He wanted first a lunch

What we might have, then
a middle, then a coast guard
& then a patrol, and when we
could learn that we were
there we were, "My God,
you are here!" and we all
came and gave some supper
with us!" He offered us cold
potatoes, sweetened coffee, and
some "alcohol" & "magnesium".
He also thought that we were
a driver and a driver of my
camera as a medicine chest
changed driver in evening
and wrote.

It was very smelly, wet
day, & very muggy. The
smell evidently came
from the N.E. It was strong
enough to smell.

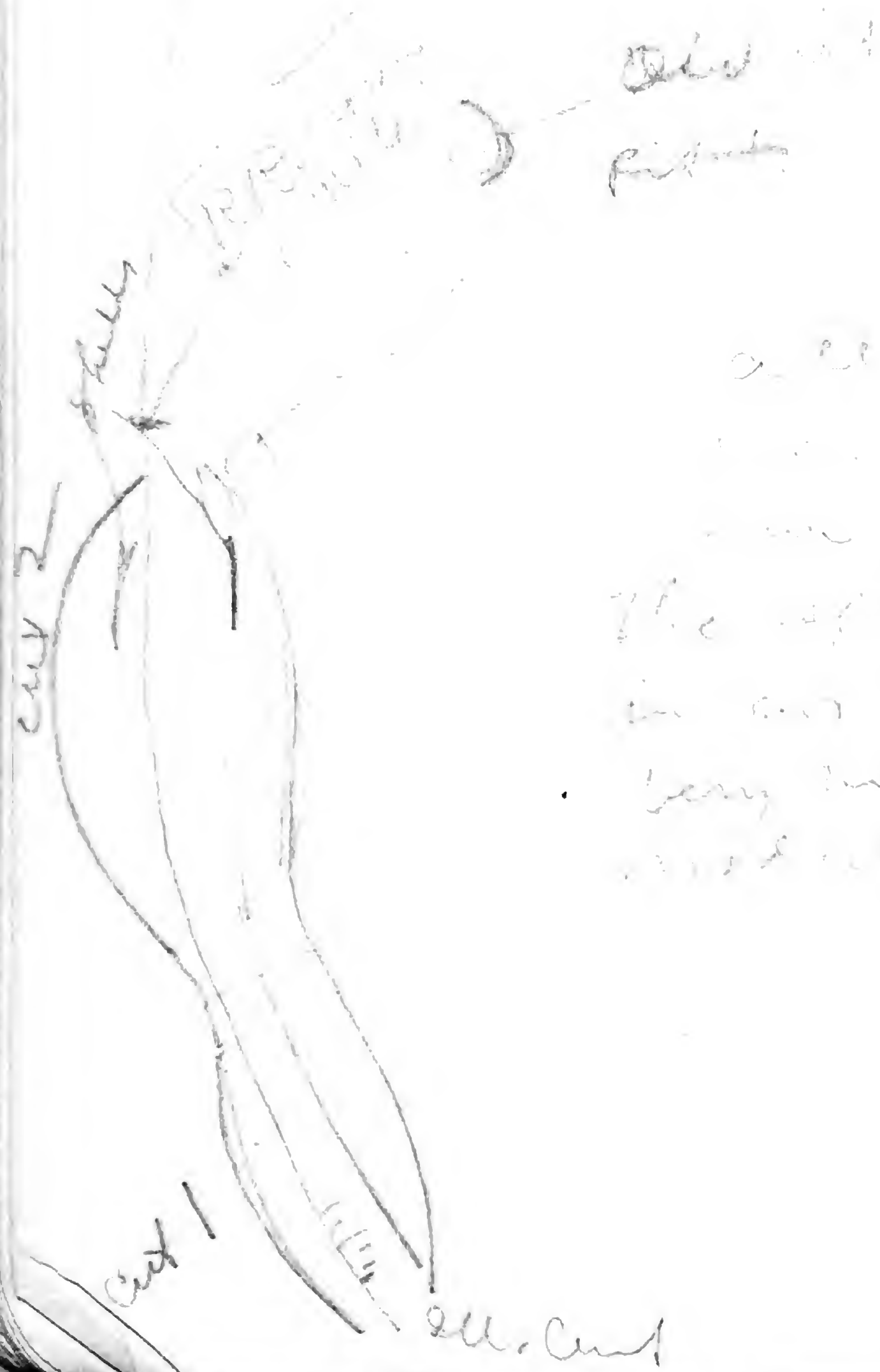
Cut along Ill. Cent.

The ... granite
also ... muggy, after
muggy ...
2-4 ft.

end 3
 fls
 (faint scribbles)

(faint scribble)

) new
 not



old
 cut

all the fls
 (faint text)
 The softness of the
 in cut 2
 very many small
 nodules

cut 2
 B. m. m.

(faint text)

(faint text)

(faint text)

The first thing I saw
 when I stepped out of the
 boat was a vast expanse of
 water. The sky was a pale
 blue, and the water was a
 deep blue. The sun was
 shining brightly, and the
 water was sparkling. I
 felt a sense of freedom and
 adventure. I had never
 before, and I was
 about to embark on a new
 journey. I was
 about to see the world
 from a new perspective.
 I was about to see the
 world as it really is.
 I was about to see the
 world as it should be.
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 world as it is.

Acerates viridiflora
 " " *v. lanceolata*
Achillea millefolium

Box 3

4/18 Kansan bluffs Ill.

St. Louis, Mo.
 1893

St. Louis, Mo.
 1893

St. Louis, Mo.
 1893

fine mix

18 a 22 ft. from base
 exposed.

Box 3 - 1893

St. Louis, Mo.
 1893

Agrostis virginica
intacta

Agrostis virginica
intacta

Agrostis virginica
intacta
Agrostis virginica
intacta
Agrostis virginica
intacta
Agrostis virginica
intacta

St. Louis - Kansas
 fragments of bones
 under of day,

Thurs. Aug. 25 1910

Went to

to work on

Took photos of end of line
at 11, 12 & 13 = 27 or 28
below

rather
soft, and clay. It is
very soft

Went to the Hamilton hill

Took photos 21 & 22, 9 & 10.

One set of photos - took 27 & 28 later.

See also the cut

The Kansan is a
joint clay, but is fossiliferous.
It has a series of Kansan shells

Went to the Hamilton hill
to take photos of the
Kansan. The hill is a
man very
27 & 28. The hill is
clay. The hill is a
Kansan hill. The hill is
over large area. The
first set of photos of
the

We dug down in pit best pit
 & found a good amount of
 shells in it. The shells are
 (see list) mostly small ones.
 of various species.
 This pit was about 8 ft. deep
 & 7 ft. wide. The bottom of the
 cavity was about 6 ft. from
 the surface. A big
 heap of them is nearby.

I estimate that the
 in cut 1 is about 50 ft.
 above the surface.

I collected several hundred
 shells in cut 2, in the
 east, silt, and.



in the other direction but
 this other part is distinctly
 different. The beds are
 gravel & sandstone and
 are not as fine
 as the ones in the first section.
 The sandstone is not as
 fine as the one in the first section.
 The sandstone is not as
 fine as the one in the first section.
 The sandstone is not as
 fine as the one in the first section.

A big wall along main line of
 RR runs 40 or 50 ft.
 into the stratum. It was
 given up.
 The top of the stratum
 is about 100 ft. above the
 base of the stratum. (see then.)

The 10th track main line
 is about 100 ft. above the
 top of the stratum. It is
 thin in the middle.

The lower river valley
 about 8 ft. lower than the

Photo 1 & 2
 looking down the river
 from the top of the stratum

Photo 3
 looking down the river
 from the top of the stratum

Photo 2 & 3
 looking down the river
 from the top of the stratum

There are some small
 in the stratum. The stratum
 is about 100 ft. above the
 base of the stratum. It is
 thin in the middle. The stratum
 is about 100 ft. above the
 base of the stratum. It is
 thin in the middle.

Photo 1 & 2
 looking down the river
 from the top of the stratum
 Photo 3
 looking down the river
 from the top of the stratum
 Photo 2 & 3
 looking down the river
 from the top of the stratum
 There were some small
 in the stratum. The stratum
 is about 100 ft. above the
 base of the stratum. It is
 thin in the middle.

From road to N.

3 3/4 miles

From road to N.

Aug. 29, 1910 (Saturday) ⁶⁷

Drove from K. and N. with

Wm. J. S. to make

The great mound at N.

is under the mound

3 1/2 miles

Mound of 100, small cuts in

ground & gravel in line row &

gravel up to 2 ft. 2 ft.

little mounds, then 2 ft. 2 ft.

is made up of a brown surface

with somewhat of a pebbly &

a little like pebbles, but

not a rather soft mud, and

a part of it is thick with numerous

fine pebbles. This is a pebbly

in a ^{gutter} cut along road near township

line N. of mound (this is really

about 3 1/4 mile N. of top line)

near N. of the road, south,

at creek (road)

At 3 1/2 miles N. of N. on

the Cambridge Ferry River place

the cellar 4-5 ft deep did not

penetrate to gravel.
The material was
not in a single mass or
less joint clay like.
Many pebbles, 8" in
diameter with common
iron streaks, etc.
I should add it is
about 24-15
ft deep mostly
into gravel.
A gravel ridge in
the field is
at present.

A cut in road S.E. of
house shows about 10
ft. of blue sandstone
limestone with very much
calcareous nodular material

Now from the Mrs. Smith says they are in the same way on account of the cold.

This is on quite a level
in the place. This runs
up until the ground plane is

the terrace is about 25 ft above river
bottom. 10 ft. ³/₄ of way
15 ft. ¹/₂ of way then.

On the north side of the river, my
 work there was to find out
 of the Kalamazoo river. There are
 banks there on the river and
 been there.
 we are looking for some, which
 point to the river, and some are
 going down, which point to
 the river and some are on the
 sand & gravel. It is kind of
 curious they are not all
 low water.

The top of the river is
 (as a rule) about 20 ft.
 above the lower water, &
 this is about

The upper part of the river
 is rather fine sand & sand
 cross bedded - & otherwise fine

Spring 10-12 5
 water level

Photo 10-12 5
 Photo 10-12 5
 view

In the 2nd section of the river
 the water level is about 10 ft. above
 the lower water level. It is
 a fine sand & sand, and
 is a part of a series of sand
 & gravel bars for 12 or 15 miles.
 The water level is about 10 ft. above
 the lower water level. It is
 a fine sand & sand, and
 is a part of a series of sand
 & gravel bars for 12 or 15 miles.

Resting on bottom 1050
 12:5
 175 ft

The terrace up town is made
 of sand & gravel. It is
 made of sand & gravel, and
 is a part of a series of sand
 & gravel bars for 12 or 15 miles.

It is 1400 ft. above sea level
(about 1000 ft. above
the river)
About 1000 ft. above
the river the top of the
mountain is reached.

The same spring here.

It is 1000 ft. above
up to 5 ft. above the
river.

Water is out of about 12 ft.
bluish sandstone
about 10 ft.

Just N. of house on the ridge

the ridge there are numerous

springs at a much higher level,

namely about 20-40 ft. above
lowest bottom. Above this

seems to be a lot of

Kansan.

Drive N. toward road-
house.

It is 1000 ft. above sea level
about 1000 ft. above
the river. The top of the
mountain is reached.
There is a spring here.
Looking down

On the ridge there are
plain sandstone mountains
commencing. Did the

ice reach the ridge
up some 1000 ft.
the ridge is about 5 ft.

in the ridge is about 5 ft.
and the ridge is about 5 ft.
upward from the spring.

It is 1000 ft. above sea level
about 1000 ft. above
the river. The top of the

mountain is reached.
There is a spring here.
Looking down
the ridge.

Aug. 28, 1910 (Sun. | 77

Billion 3643178, from ground
some way to surface.

99-48

Near N.E. cor. of sec 16, T. 20 N., R. 10 E.,
Twp. 20 N. in first slope or hill, there
is a mass of light sand grain. It
is more abundant where there are
a few more. It is not abundant where there are
a few more. It is not abundant where there are
a few more.

First hill with flowers along
modular does with drift on
the north side lower down.
9800.

The next day
This is between sec. 9 & 10.
On the next day I went to the
there are a great many yellow
flowers around, and

Just N. of corner (between sec.
3 & 4) yellow coen (notulata) & ~~R. missouriensis~~

[illegible]

The above is a list of the
 names of the persons who
 have been appointed to
 the various committees
 of the Board of Directors
 of the City of New York
 for the year 1900.

upper yellow loam, with nodular
layer, is about 5-6 ft deep.
The blue loam shows here - at
least 5 ft. - large iron tubes,
few nodules.

Transverse section - 5-6 ft. blue loam
5 ft. blue loam
Kansan

There are several banks
and hummocks of gravel
along this valley which are
more recent, probably from
the glacial period. One - found
reworked material.
Such are probably cut N. of RP.
in N. 2. W. of sec. 20, the gravel
pit in 84 1/4 16; cut N. on N. side
sec. 21; and cut 2.
But at slide in 22 the upper up
afternoon nearly 90 under sand.

1st cut N. of granite

85

2nd cut
N. side

weathered Kansan material
horizontally, but just beneath
along this valley.

Occasional nodules of iron
at least 5-6 ft. - at
above is a band of fine
gravel - 1-3 ft. or more &
then sand & gravel, sand
(dark.)

The lower material is surely
not Kansan.

Drove to bridge at 10:30 AM
S. side of bridge - there is
a little gravel here, &
be part of a stream with
what appears to be Kansan in

The lower 20 ft. of the
ridge shows a fine
gravelly sandstone
bedded in a level
plane - 15 ft.

The gravel pit - a bank along
the side of the road
shows sand & gravel, but
no coarse bedded etc.,
the top of the gravel bank
is exactly in a level with
general terrace & with
block S. of bridge.

The gravel is about 15 ft.

The R.R. at crossing is only
about 5 ft. above
ridge, which is nearly on a
level with surrounding terrace.

The gravel pit shows
a row of gravelly sandstone
beds, & in the
gravelly sandstone, only about 2 ft.
thick.

The boundary layer
is a same gravel & sand
be just a segregation line of
material.

They are in a level with the
general terrace as it is seen,
but a little over
the part S. of bridge.

The 2nd cut shows Kinson diff. ^{close to} 10 ft
2nd cut S. (higher) shows yellow
loess (about 10 ft. above)

The 2nd section (S.) of the same - shows
blue loess with some thin, more

Went N. from city.

The river bed is about 500
 ft. E of which there is
 a dump of which shows lignite
 (quite characteristic of the
 with pebbles, etc.) -
 up to 30 ft. above the
 bottom (on the E. side)
 and then above this is
 gravel which extends to 45
 ft. above creek bottom -
 This is about top of
 great bench, it is
 5 ft. higher in places.

E of Nicholas 1/2 mi
 gravel of the hill of
 the river

and the bridge a
 gauge in hill shows
 1. Kansas -

2. An oxidized band 6-8 in.

3. Fine light brown sand
 20 ft.

4. McPherson Tongue (see
 sample. Black

Spring come over it
 1/2 mi from end.

50 ft up of
 of sand

from lowest river bottom.

A fine fan of Aftonian
 sand has been washed down
 on the left of the stream
 cutting hill.

Drove back to Canton.

Aug. 14 - Fare to Casa Grande		.50
" 14 - "	to Chandler	5.44
mon " 15	Breakfast, Hotel Eden	.30
	Lodging, Chandler Hotel	.37 1/2
" 16	3 meals & lodging	1.50
" 17 -	breakfast + lodging	.75
	Dinner ²⁵ Shoreland ²⁵ , J. M. Blue	.50
	Lunch (supper) Chandler lunch room	.20
	Livery	2.00
	Lodging, Chandler Hotel	.37 1/2
" 18 -	Meal, bath + dinner + supper	1.12 1/2
	Livery	1.50
	R.R. to Phoenix Falls	.50
	Transfer "	.25
	Dairola Hotel "	.50
Mon " 19 -	R.R. to Canton	.63
	Team to Klondike + feed	3.50
	Breakfast +	
	Lodging, Rudolph Hotel	1.50
" 20 -	R.R. to Park Valley	.47
	Lunch - lunch room (unlabeled)	.20
	Team to Boon	.50
	Lunch room - Park Valley	.25
	R.R. to Canton	.47
	Supper Rudolph Hotel	.50
	Lodging	1.00
" 21 -	Breakfast, supper, lodging	2.00
" 22 -	" lunch (supper) Gate City Rest	2.00
" 23	" dinner	1.00
	R.R. fare to Grand Falls	.50
	Dry plates - 4 plates -	2.60
	Lunch plates	.50
	Hotel Dairola - room	.50
	Lunch - Boston Cafe (supper)	.25

Date	Particulars	Amount
Aug. 24	Breakfast - Hotel Fairview	1.00
	Room - Hotel Fairview	1.00
	Supper - Hotel Fairview	1.00
	Laundry - Hotel Fairview	.50
Aug. 25	Breakfast & dinner - Hotel Fairview	1.50
	Room - Hotel Fairview	.62
	Laundry - Hotel Fairview	.50
	Supper & room - Hotel Fairview	1.00
Aug. 26	Breakfast - Hotel Fairview	1.00
	Room - Hotel Fairview	.62
	Supper - Hotel Fairview	.50
Aug. 27	Breakfast - Hotel Fairview	1.00
	Room - Hotel Fairview	.62
	Supper - Hotel Fairview	.50
Aug. 28	Breakfast - Hotel Fairview	1.00
	Room - Hotel Fairview	.62
	Supper - Hotel Fairview	.50
Aug. 29	Breakfast - Hotel Fairview	1.00
	Room - Hotel Fairview	.62
	Supper - Hotel Fairview	.50
Aug. 30	Breakfast - Hotel Fairview	1.00
	Room - Hotel Fairview	.62
	Supper - Hotel Fairview	.50
Aug. 31	Breakfast - Hotel Fairview	1.00
	Room - Hotel Fairview	.62
	Supper - Hotel Fairview	.50

Sep. 1 - RR to Shindler .20
Breakfast & lunch for self 1.00
Breakfast - Shindler 1.00
Supper & lodging S. Quincy .10
Sep. 2 - Breakfast & lunch S. Quincy .25
Lunch (supper) Gate City Rest. Center 1.25
Sep. 3 - Room, Breakfast & dinner, room 2.00
Room 2.00
Supper - Gate City Rest. .25
Sep. 4 - Room 1.00
Lunch in NW part Lynn 1.00
Breakfast & supper Gate City Rest. .50

May 20, 1910 (Monday)

Re. in 1951 = 1260

Top of ground level - 100 ft.
= 1270

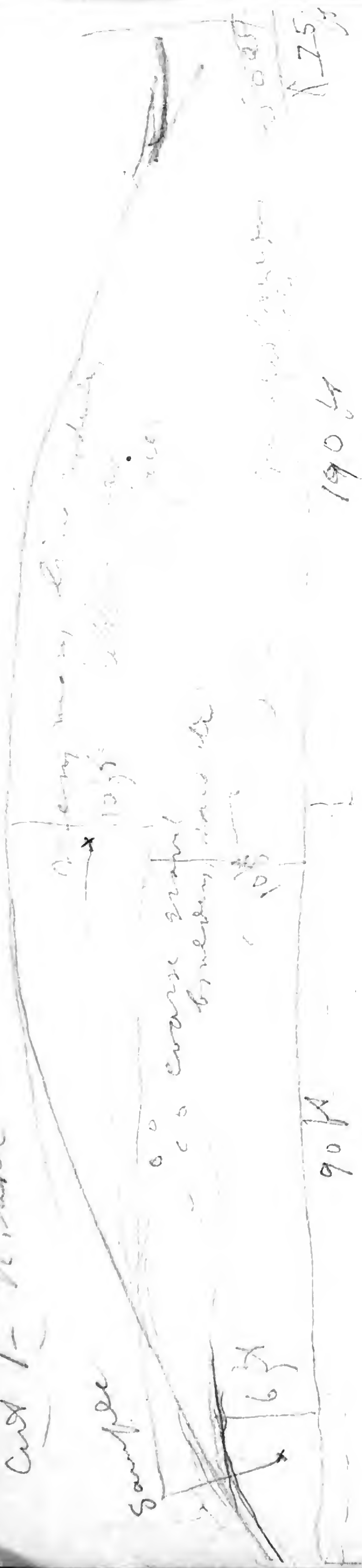
Top of cut - 1245.

The uppermost layer is about
15 ft. deep in lower part.
It is grayish, soft, with
spots. There is a faint
appears grayish brown
+ numerous small nodules
a few pebbles are scattered
over the surface.

Look sample of Kansas
Gm Hamilton's second list
This is a deny to

Cut 1 - White

sample



Cut 2 - White

heavy sand and small cobbles, silt, sand, etc.

67 ft sand river

D4M

800 ft 9 ft 18 ft 10 ft
fine sand, etc.

300 ft

1000 ft sand & clay

1000 ft sand & clay

1000 ft sand & clay

1000 ft sand & clay

1000 ft sand & clay

1000 ft sand & clay

1000 ft sand & clay

horizontal bedding, the ...
4 feet ...
distinct ...
Kamm ...
pebbles.

It is ...
below ...

I ...
from ...
to ...
to ...
to ...

50 ...
almost ...
in ...
height

W. of ...
less than ...
is a ...
ridge (isolated) of ...
row & gravel - 30 ...
Omaha RR, about 30 feet lower than

stopped ...
...

Aug. 30. ...

Rained ...
...

...

...

W
↑
S

Long Creek

Big Grove

St. Charles Ave

map 3

Colburn St. (North)

St. Charles Ave

ent 7-10-22

Campylobacter

2000

152

10

1

170

270.

105

S. side of cut 7.

S. side of 77

sample

124 60 7

a

a

a

a

a

a

a) is quite similar to the

one, but with a more

coarse texture. See sample of clay & sand.

(as the wide is similar and the

clay) the same as the

one, but with a more

also the same as the

one, but with a more

one, but with a more

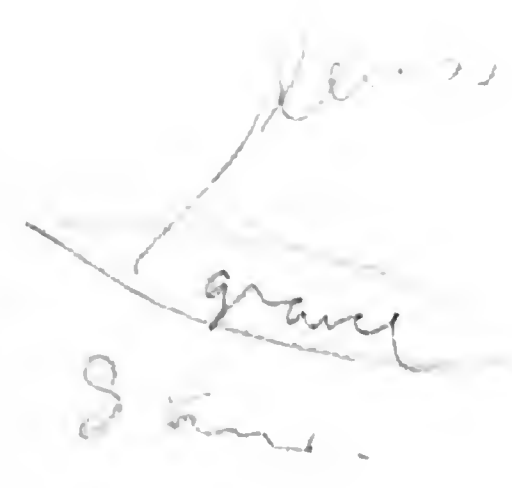
one, but with a more

one, but with a more

one, but with a more

above it into the
 a very little
 the lower part of the
 2 m. thick
 that, with the
 a bed of gravel at the
 above it
 The soil is on the
 in the middle of the
 the river bed is in the
 at 2 + the gravel is above it

On the side of the
 bank (here the gravel is
 also seen in the gravel
 in part below, the gravel is



(c) is exposed vertically on
 N. side at least 6 ft

at 2 + the gravel is above it
 the lower part of the
 2 m. thick
 that, with the
 a bed of gravel at the
 above it
 The soil is on the
 in the middle of the
 the river bed is in the
 at 2 + the gravel is above it

On the side of the
 bank (here the gravel is
 also seen in the gravel
 in part below, the gravel is
 very rough
 the gravel is above it
 the gravel is above it

(c) is exposed vertically on
 N. side at least 6 ft
 the gravel is above it
 the gravel is above it

boulders in lower
 5. white
 I can see a little
 between the two layers
 above & below sand

Quartz C. 2-1000



1870

2

A few minutes after 11:00

One block & a half from the
S. on Main Ave. N. opposite
east end of McCallum st.
there is a high cut (pink)
about 20 ft high.

11-11-11

1892

3

10

Smith of the Bluffs etc.
a layer of coarse sand & gravel
with a few pebbles, about
2 ft. thick & 4 ft. high
up in a short distance.
It is up about 12 ft. from
rock.

This is a typical example.

There are two old, low, open
the base of the hill is
20 ft. high. The
base is gravel & sand
about 15-17 ft. thick.
The upper part is clay, brown
stained, some times same as the
new Hamilton pit - above it
the upper 6 ft. is sandy, then
3-5 ft. of sand & silt, then
beautifully sorted sand &
fine gravel (C, says it gets
coarser below).

The lower part is streaked
abundantly in places with
 MnO_2 & iron occurs in

121
The upper part of the hill
is a fine, light-colored sand
about 10 ft. thick. It is
up about 12 ft. from
rock. This is a typical
example.

This certainly is a typical example.

The top of the sand and the
 pit is about 2 feet from
 the surface of the ground.
 The pit is filled with a
 level of sand and a
 layer of sand and a
 layer of sand.

123

Remains of blue point clay

crossed section of sand layer

Remains of sand

Remains of sand

From this journal -
 a specimen - value in
 lower cross-bedded sand.

The top of the sand and the
 pit is about 2 feet from
 the surface of the ground.
 The pit is filled with a
 level of sand and a
 layer of sand and a
 layer of sand.

123

The top of the sand and the
 pit is about 2 feet from
 the surface of the ground.
 The pit is filled with a
 level of sand and a
 layer of sand and a
 layer of sand.

cut 6" N. side
 Pile 2 1/2' 2 1/2' 2 1/2' 2 1/2'
 " (this was a cut)

get 2 1/2'



Work on pile
 It is tough, light
 and has a few pebbles
 boulders



cut 2 1/2' 2 1/2' 2 1/2' 2 1/2'

(see p. 103)
 cut 2 1/2' 2 1/2' 2 1/2' 2 1/2'
 It is tough, light
 and has a few pebbles
 boulders
 On 7th

in 100 ft. of soil
 cut 9 in 200 ft. of soil
 parts in 600 700 ft. of soil
 20 ft. of soil

8 in. 1 ft. of soil
 24 ft. 5 in. of soil 2-4 ft
 thick 1 ft. of soil
 fine gravel with a
 large amount of stones
 lined by 10 ft. of soil

cut 12

in 100 ft. of soil
 center 1 ft. of soil
 fully 20 ft. of soil
 1 ft. of soil

then 3-5 ft. of soil
 mixed stuff 10 ft. of soil
 then 5-7 ft. of yellow sand
 then 1 ft. of coarse sand
 fine gravel with much soil
 then 2 or 3 ft. of coarser gravel
 then 6-7 ft. of fine cross-bedded
 sand, below coarse gravel, ferruginous

in 100 ft. of soil
 20 ft. of soil
 24 ft. 5 in. of soil 2-4 ft
 thick 1 ft. of soil
 fine gravel with a
 large amount of stones
 lined by 10 ft. of soil
 in 100 ft. of soil
 center 1 ft. of soil
 fully 20 ft. of soil
 1 ft. of soil
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 then 5-7 ft. of yellow sand
 then 1 ft. of coarse sand
 fine gravel with much soil
 then 2 or 3 ft. of coarser gravel
 then 6-7 ft. of fine cross-bedded
 sand, below coarse gravel, ferruginous

2 Samples - 100 ft - 10 in.

1- sandy
2- gray, calcareous

3- sandy
4- sandy

(m)
5- sandy

7 4-6 ft (sandy?)

2 4-6 ft

3 Sandstone, yellow.

4 3-4 ft
sandy

5 3-4 ft (sandy)

6 3-4 ft

This is sandy, with
pebbles, & shows joint
character.

Toward
at base the sand & gravel
layers below which is
is continuous with the
big bed of gravel & boulders in cut (1)

My house - 100 ft - 10 in.

1- sandy
2- gray, calcareous

3- sandy
4- sandy

5- sandy (we add)

6- sandy

7- sandy

8- sandy

3- sand, gravel, boulders, 1-2 ft

4- sandy

5- sandy

6- sandy

7- sandy

8- yellow

I believe gray layer to
be Kansan. It lies above
Kansan in west 3rd corner
in Collins (18), it is
on level with Kansan

The water is, even in the best, a long, narrow, shallow course in the upper courses of the stream to furnish food material.

Sept. 5, 1940

Left for Independence
at 10:10 AM.

After leaving the town of Independence
we drove up a road which is
level, but somewhat rough,
slightly up.

Beyond the town of Independence
there is a little, there is a slight
downward slope. There are
are numerous drainage ditches
which cross the road back.

Cut 1 The first cut, cut E. from Independence
shows what is called weathered
grayish Kansan, with some brown stains
and numerous nodules. Limestones
+ a few small nodules, and red clay
over surface.

This material is soft and porous,
looks like material called Kansan in upper
part of SW side of cut. It is soft and porous.
(There is a smaller one cut 2 ft deep,
lengths nears similar). Cut 2 ft deep.
The 3/4 mile road is at SW end of the cut.

Cut 2 Another cut, on W. side, right next to it
is deeper (by gutter) 8-10 ft and
shows typical jointed Kansan below.
The upper part is often weathered gray
Kansan (as in 1st cut). It is typical.

137

Some of the material at a depth of 10 ft.
cut 3. The material is soft and porous.
cut 4. The material is soft and porous.

The material is soft and porous.
cut 5. The material is soft and porous.
cut 6. The material is soft and porous.
cut 7. The material is soft and porous.

quite a little. The material is soft and porous.
cut 8. The material is soft and porous.
cut 9. The material is soft and porous.
cut 10. The material is soft and porous.

The lower part of the cut is soft and porous.
cut 11. The material is soft and porous.
cut 12. The material is soft and porous.
cut 13. The material is soft and porous.

cut 14. The material is soft and porous.
cut 15. The material is soft and porous.
cut 16. The material is soft and porous.
cut 17. The material is soft and porous.

cut 18. The material is soft and porous.
cut 19. The material is soft and porous.
cut 20. The material is soft and porous.
cut 21. The material is soft and porous.

cut 22. The material is soft and porous.
cut 23. The material is soft and porous.
cut 24. The material is soft and porous.
cut 25. The material is soft and porous.

Cut 2. It is similar to the material in cut 1.
Cut 10. It is similar to the material in cut 1.
Cut 20 & 22. It is similar to the material in cut 1.

all these cuts which I am now
loves projects, and the one which I
found in my collection.
Digging showed good layers of
fossils. However, the fossils
partly covered by the sand.

1. The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, and that the structure of the atom is determined by the laws of quantum mechanics.

Exp 15 is where 2nd terrace
shows. It shows a small
cut in the 1st terrace.

Exp 16 is a small cut in the 1st terrace
showing the 2nd terrace
underneath.

The 1st terrace is a sandy
crossed to the river side.

Inspected for well sorted
fine gravel & found two other
terraces. Evidently well sorted
material & some strike gravel.

Exp 17 is a small cut in the 1st terrace
showing the 2nd terrace
underneath.

number of boulders come out
in a gully. Some boulders
evidently gravel & sand
underneath.

This covers the entire bench or
terrace N. of the 1st, for the
main N. of gravel pit is a
lowest bottom.

This bench or terrace is
very flat from a distance, but

as an example of the 1st terrace
bench is a small cut in the 1st terrace
showing the 2nd terrace
underneath.

Exp 18 is a small cut in the 1st terrace
showing the 2nd terrace
underneath. It is a small cut in the 1st terrace
showing the 2nd terrace
underneath.

Exp 19 is a small cut in the 1st terrace
showing the 2nd terrace
underneath.

Exp 20 is a small cut in the 1st terrace
showing the 2nd terrace
underneath.

Exp 21 is a small cut in the 1st terrace
showing the 2nd terrace
underneath.

Exp 22 is a small cut in the 1st terrace
showing the 2nd terrace
underneath.

This is a very kind letter. I am glad
to hear that you are not in London,

The silty structure is only
apparent - the material is
according to the test

24 numbers payish.

The uppermost layer is composed of yellowish, somewhat granular, & tough, & brittle material, & is occasionally pebbled.

SW. side cut 1 (H.C. Cent.) - Jones Falls,
(see sample.).

143

RC index

The top of the mound
 just 80 ft. above the level of
 70 ft. as the level of the
 The mound is 10 ft. from the
 2nd. It is a small mound
 which is 16 ft. above the valley, & the hill
 rises to 100 ft. above the valley
 from the level of the
 plain level the
 plain is 100 ft. above the
 and the mound is 10 ft. above
 up by a steep bank
 (The highest point of
 ridge is just about where
 school is in sec. 14. etc. etc.)
 Kauri wood, etc.
 granite blackish green, & a
 few 300 ft. They look
 exactly like those on other
 side, the extent to within
 25 ft. of top of hill & top of
 pebbles in soil at surface.
 The big mound has been opened.

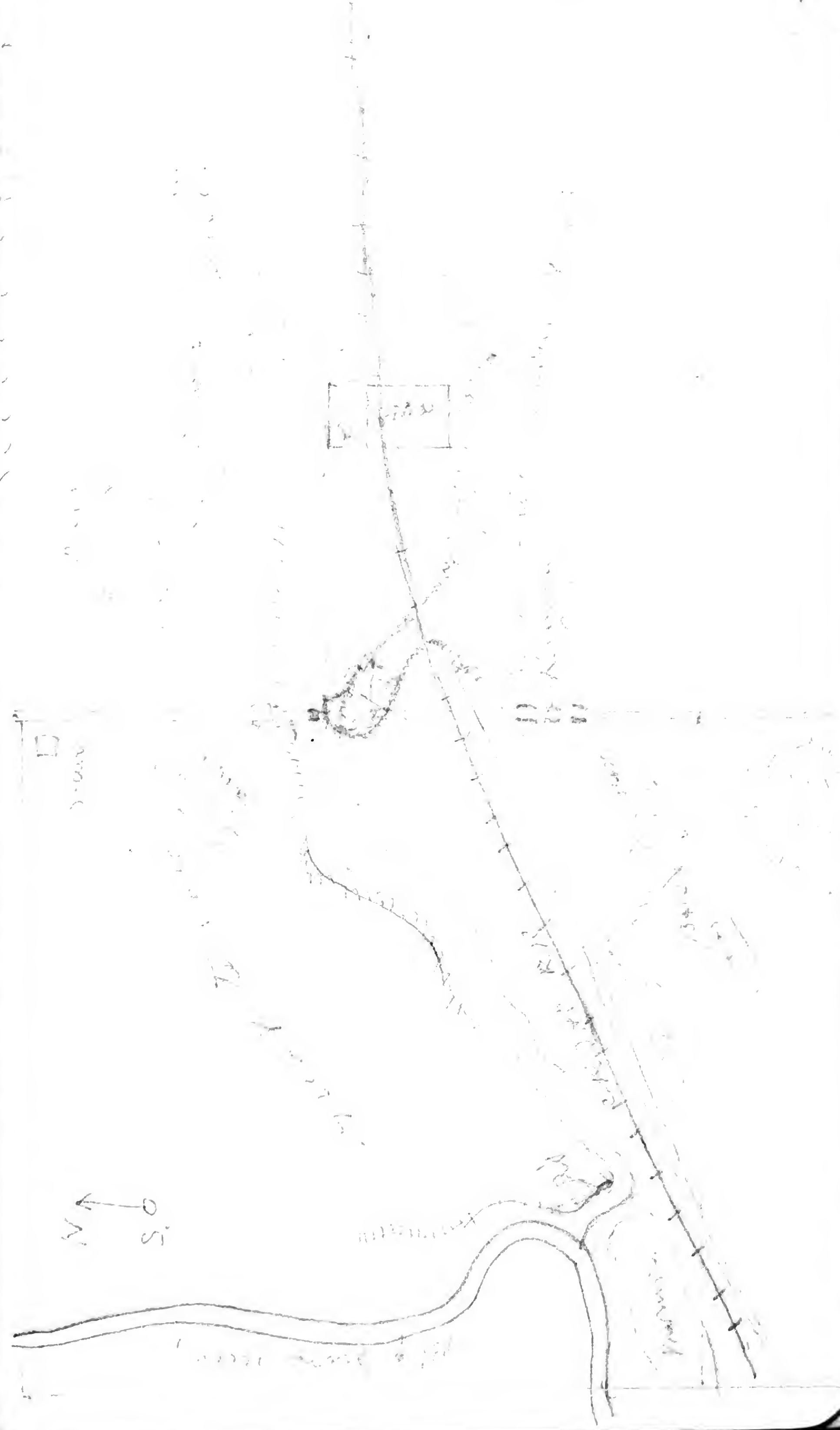
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 side, the extent to within
 25 ft. of top of hill & top of
 pebbles in soil at surface.
 The big mound has been opened.

Sept. 2, 1912. D.F. 147
 Day cloudy & windy.
 Took W. from Ditch. The
 lunch table put in front of
 wagon house. The
 back of the house
 is with the house.



Christ's work is in the house. The
 and a little one to me.

The go. between the hill
 granite terrace of the house &
 great terrace (at bridge) is
 about 50 rods. The terrace ridge
 is one 1/2 mi. long. It is
 if much more than one of the
 to hill, where the hill is, and the
 At bridge the ground is exposed only
 near top - dusty, gravel. The
 is clear bluish, calcareous, in the
 Kansan. It is not far from the
 Kansan block the valley, forming



a lake & that the terrace is
over the main terrace, &
that the terrace is a
depression between the two.
On the north side was a
large lake, and water cut
side.

Note northeast valley S. of R.R. cut,

Looking down river in
valley, the terrace is
seen as a low ridge
about 100 ft. high.

There are only a very little below the general
terrace level, S. of R.R. bridge.

The hills N. & S. of R.R. bridge
of the lower type, weathered
N. where ridge is higher.

From the granite terrace, looking
there is a noticeable
the great depression
and where cut 2 is low. The
depression is noticeable here. The
creek ^{cut 2} _{hills} terrace

Point of view
Looking down river
100 ft. high
✓ 100 ft. high
100 ft. high

Further down river
The terrace is
partly covered
by the river.

The terrace is
covered by the
river, and the
river is the
main feature.

The terrace is
covered by the
river, and the
river is the
main feature.

even in the river
The terrace is
covered by the
river, and the
river is the
main feature.

Hypothetical
Lignite layer
The terrace is
covered by the
river, and the
river is the
main feature.

The terrace is
covered by the
river, and the
river is the
main feature.

The
into small
of about 9 ft
This
can simply
structure
lower layer with lower
(pit.)

Went south a way and then
cut 2. The ground
seems to be a
mud of sand it has a pretty

Amelia

112

2015

153

The highest part of the mountain (northward) is about 150 ft above sea level.

This is all afternoon, with Kansas above.

James Hamilton 17th

159

[Faint handwritten notes, possibly describing a specimen or observation.]

[illegible]

- 1 - Fair
- 2 - Good
- 3 - Excellent
- 4 - Rather good
- 5 - Very good
- 6 - Excellent
- 7 - Occasional

2 - 100
 3 - 100
 4 - 100
 5 - 100
 6 - 100
 7 - 100

